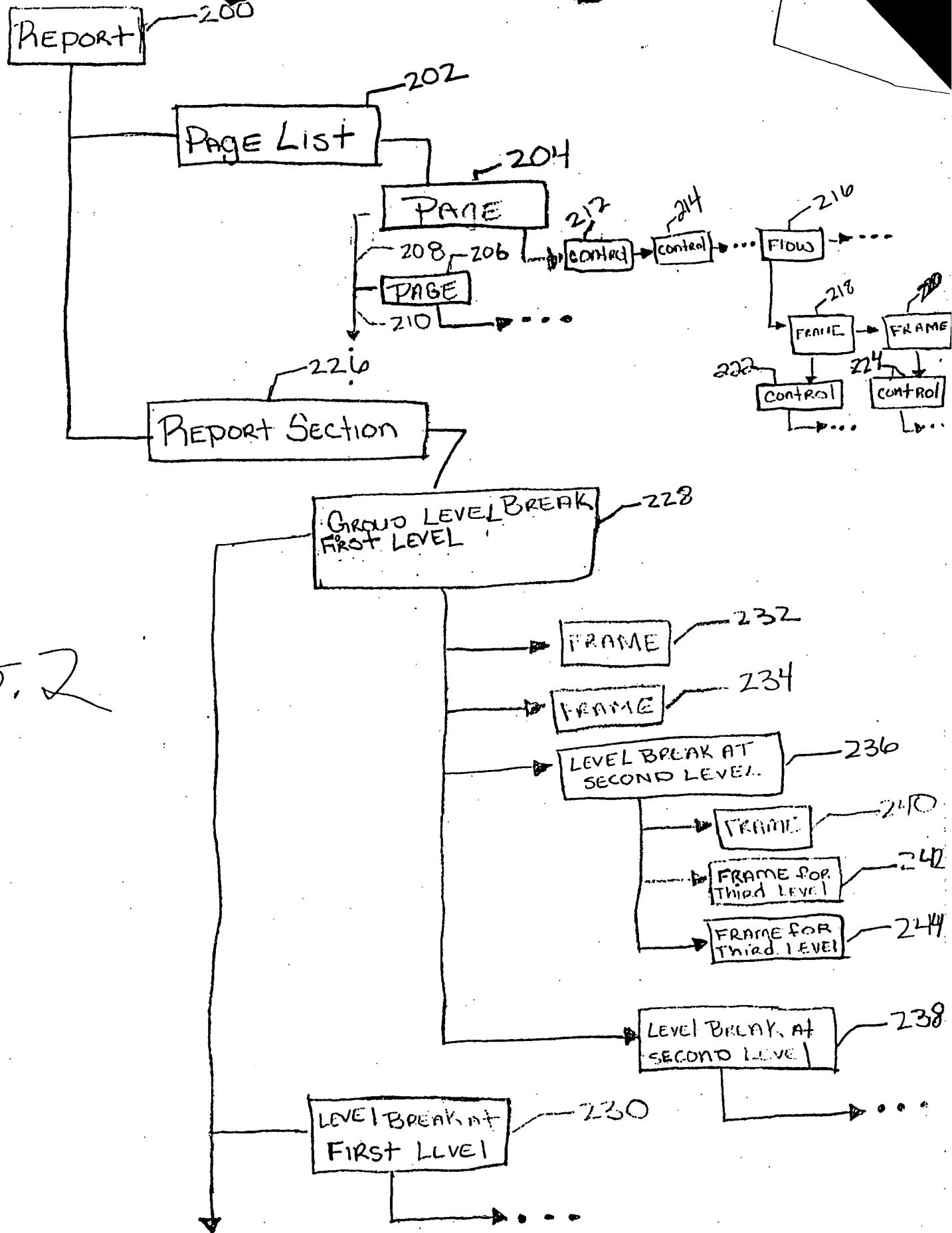


FIG. 1



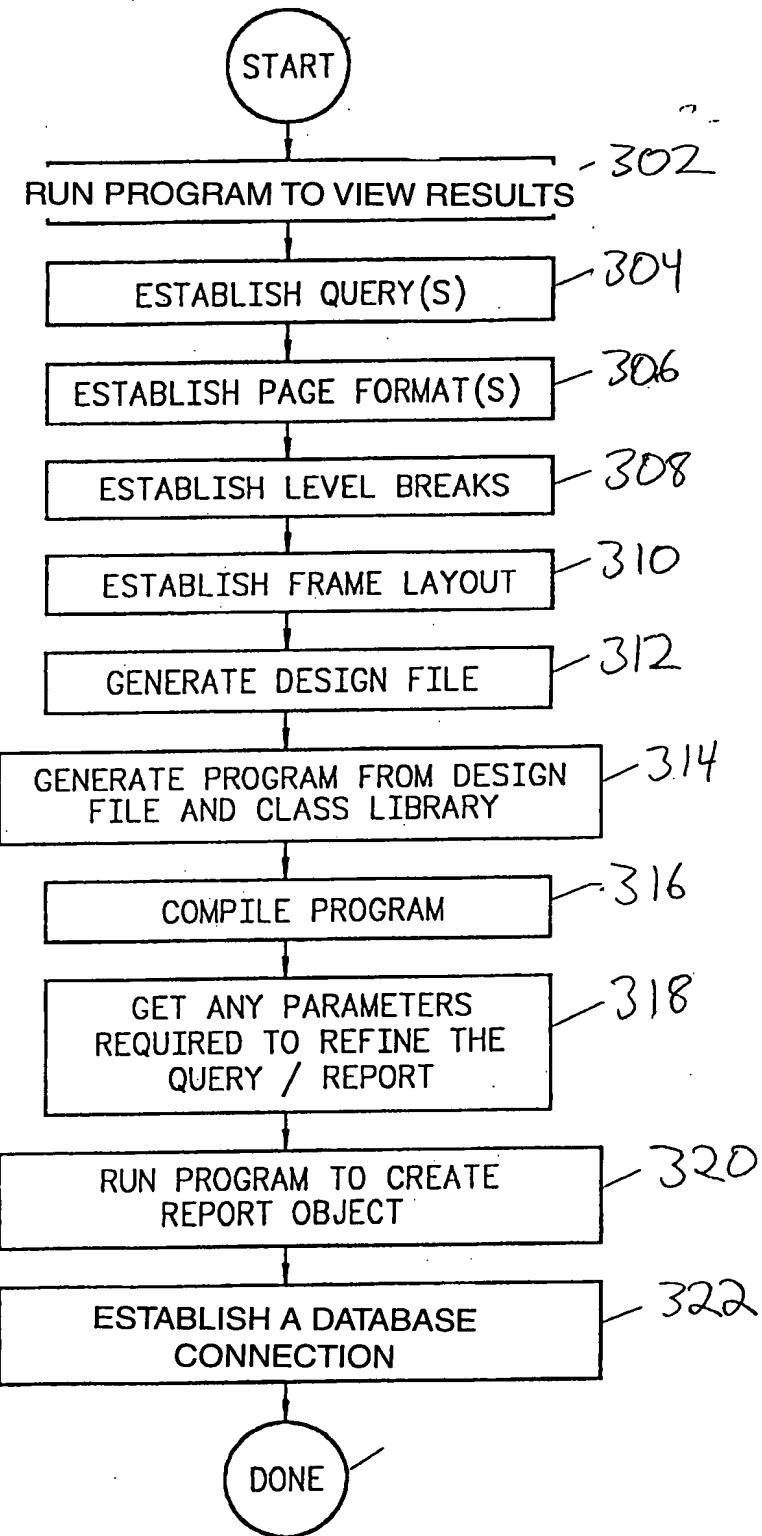


FIG.3

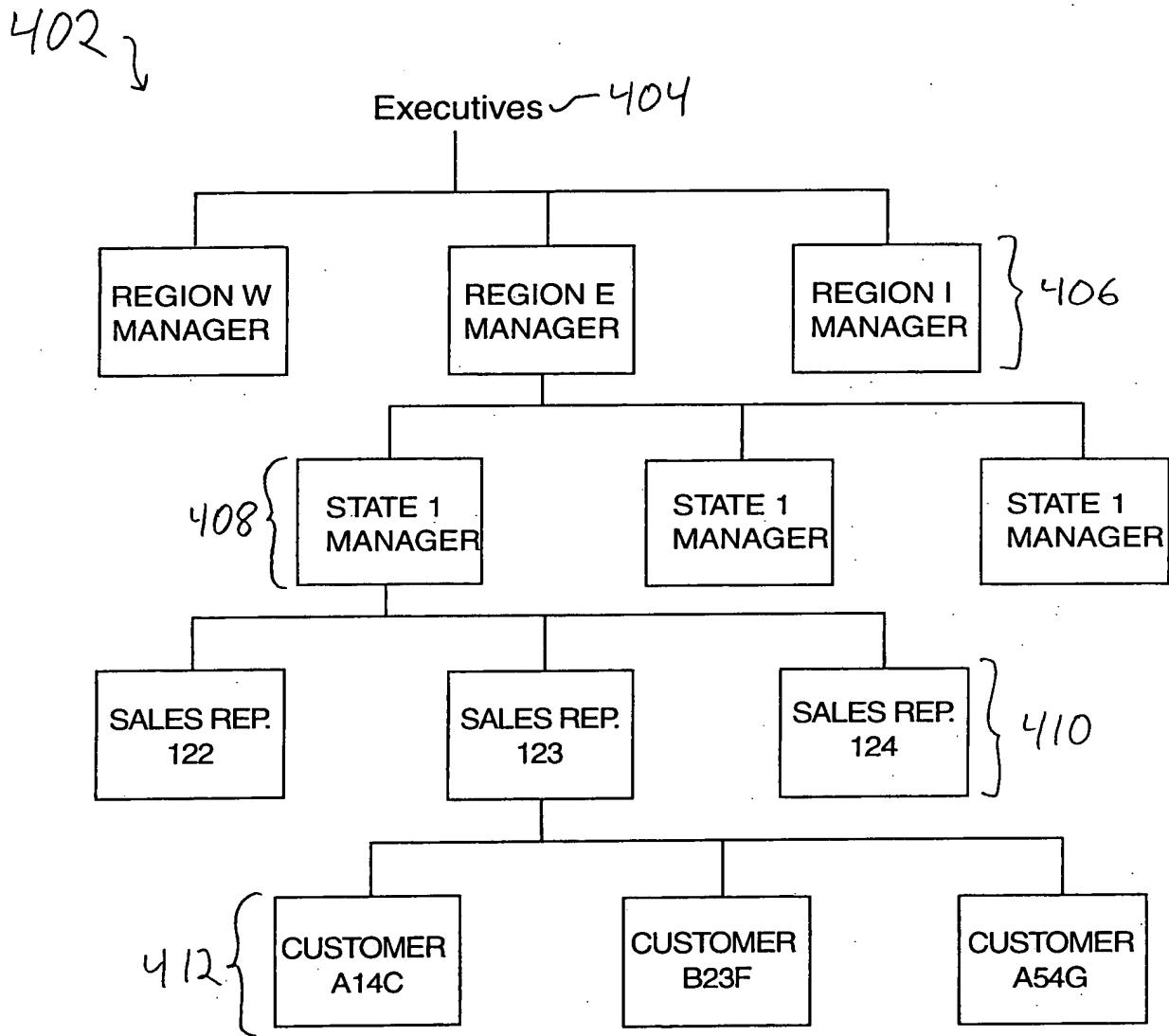


FIG. 4A

414 ↴

Region	Office	Sales Rep.	Customers
E	State 1 Mngr.	S.R. 123	A14C • • •
416 (1st level break)	418 (2nd level break)	420 (3rd level break)	B23F
			A54G

422

•  
•  
•

FIG. 4B

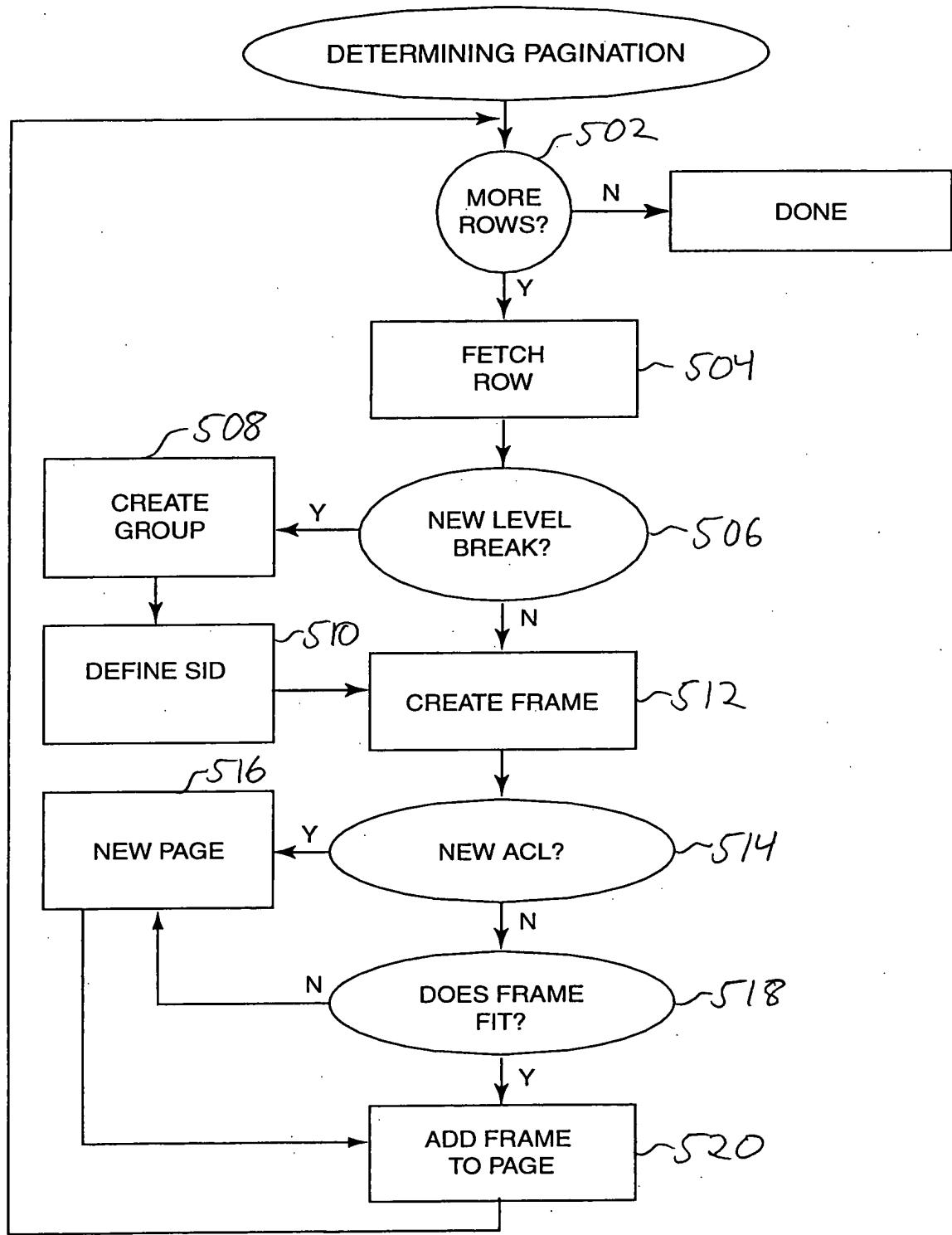


FIG. 5

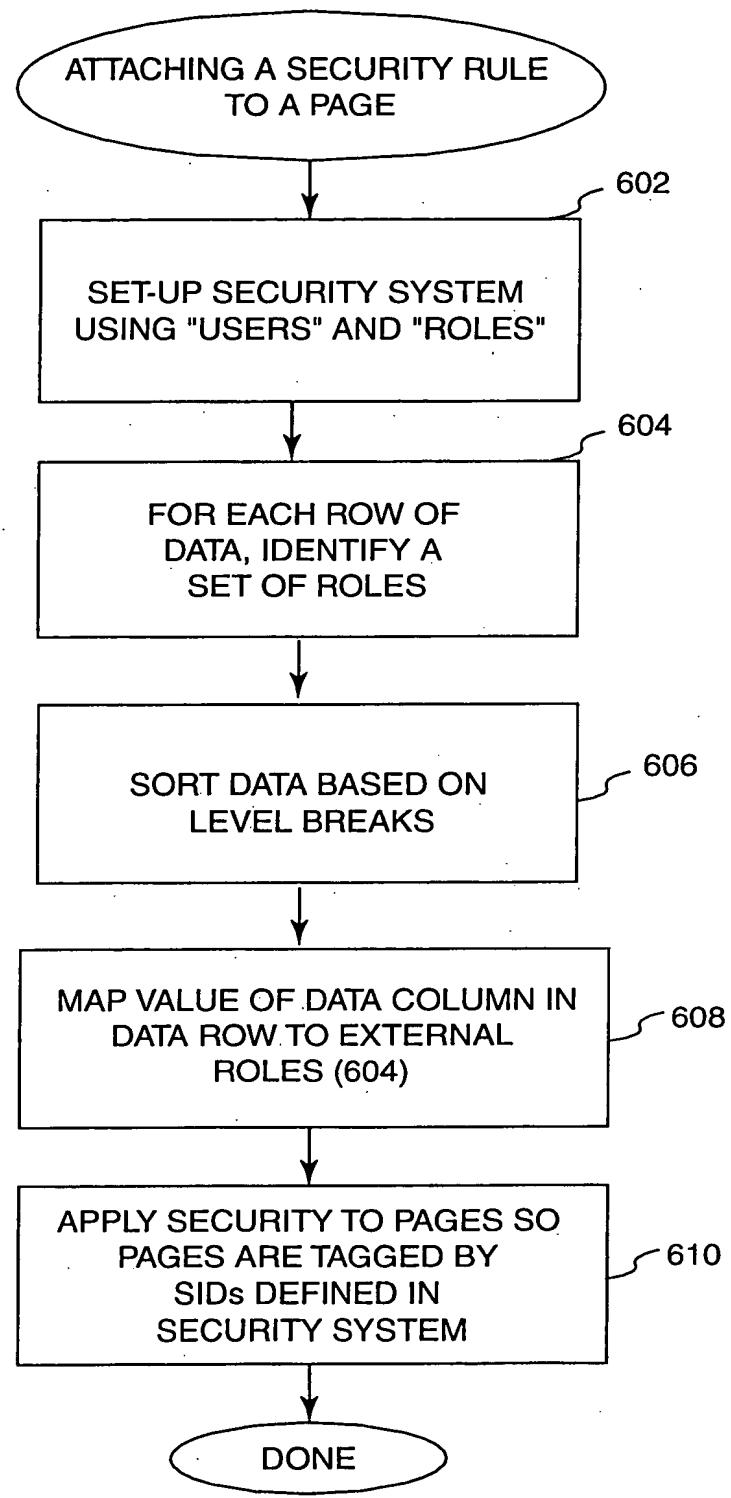


FIG. 6

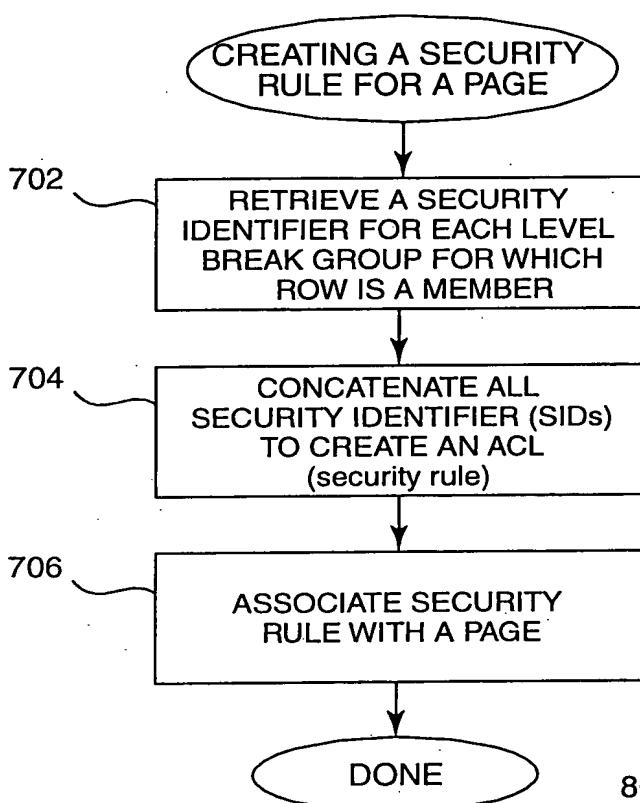


FIG. 7

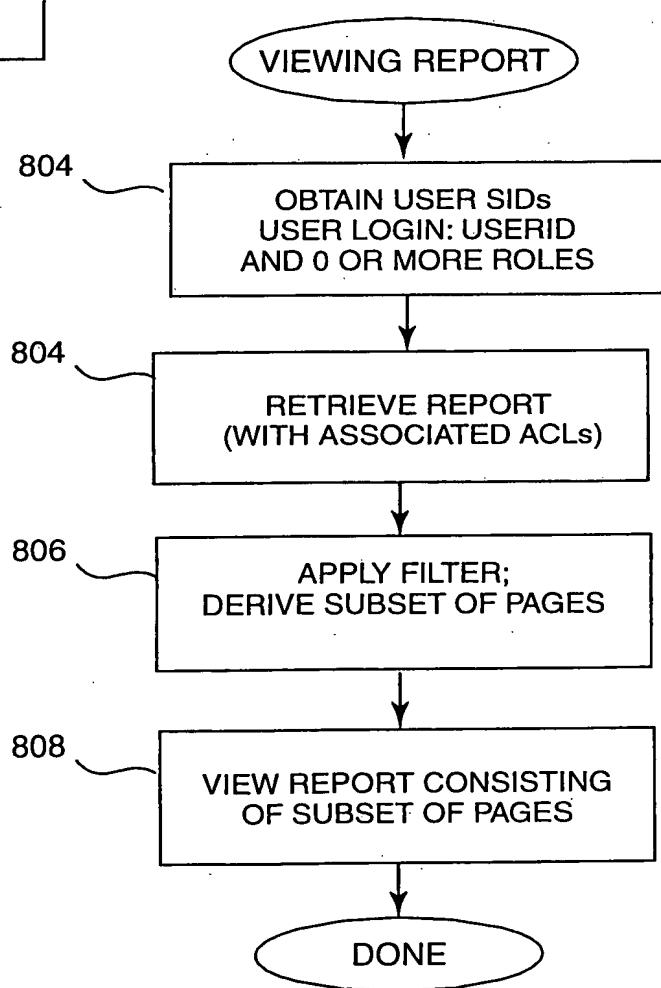


FIG. 8

FIG. 9B

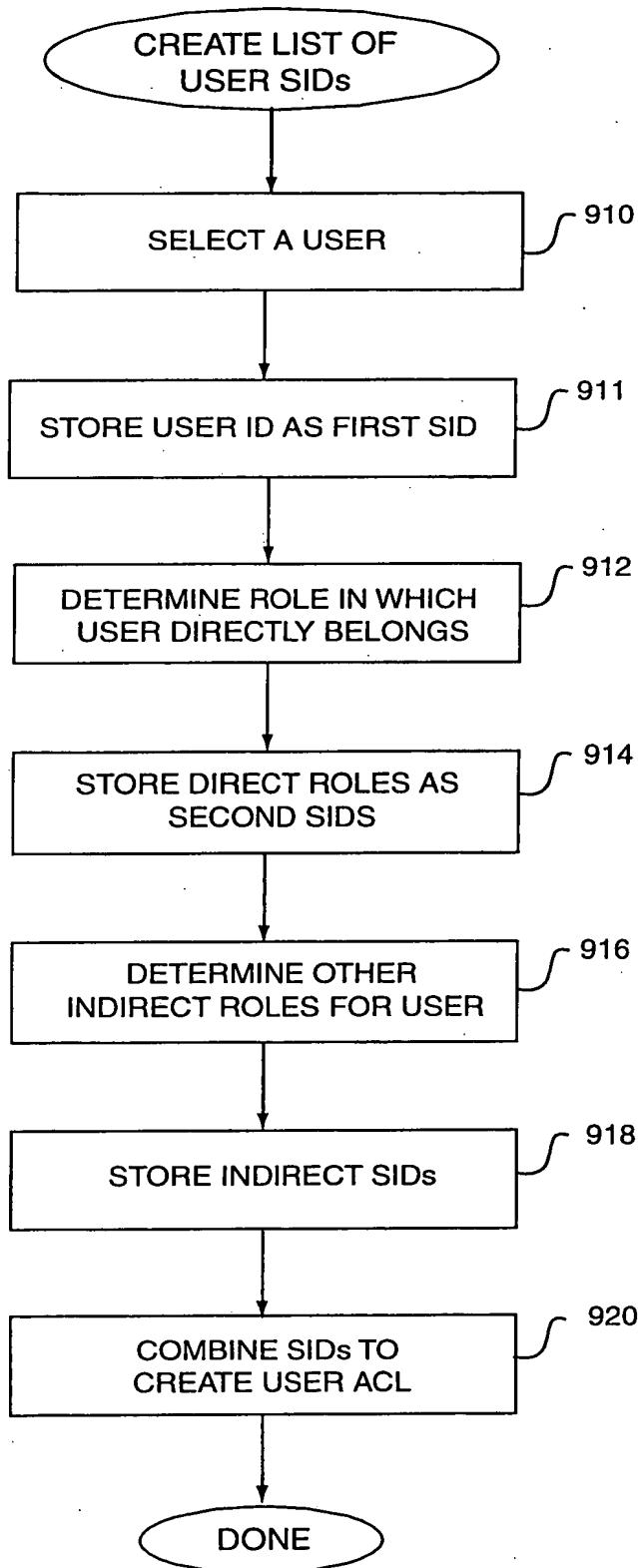


FIG. 9A

USER AND ROLE	"BELONGS TO"
Role 1	Role 2
FJones	Role 2
Role 2	Role 3; Role 4
UserID5	Role 4
Role 3	[NULL]
Role 4	[NULL]
•	•

The table, titled "USER AND ROLE", maps users and roles. It includes columns for "USER AND ROLE" and "BELONGS TO". The data shows various roles like Role 1, Role 2, Role 3, Role 4, and UserID5, and their associations with other roles such as Role 2, Role 3, Role 4, and [NULL]. Ellipses indicate additional entries.

FIG. 10

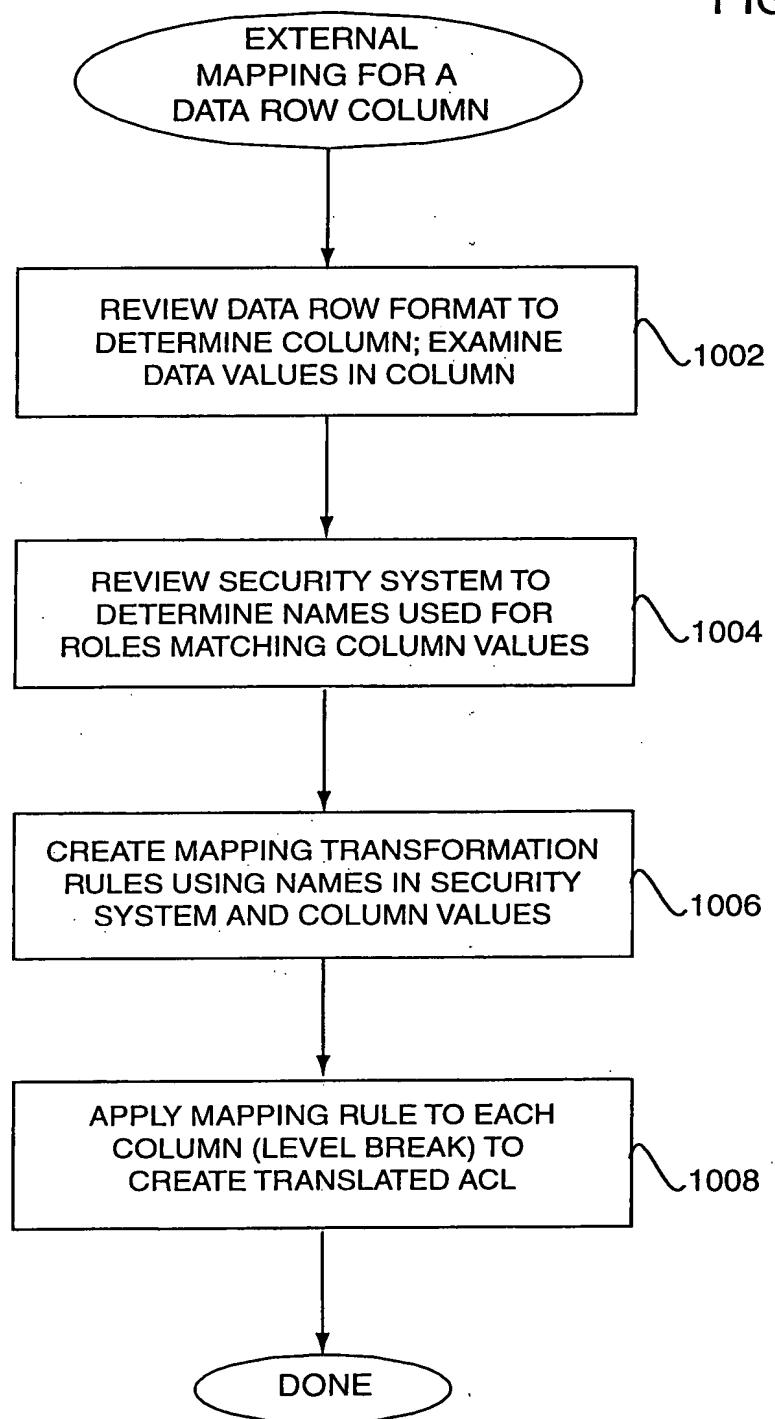


FIG. 11A

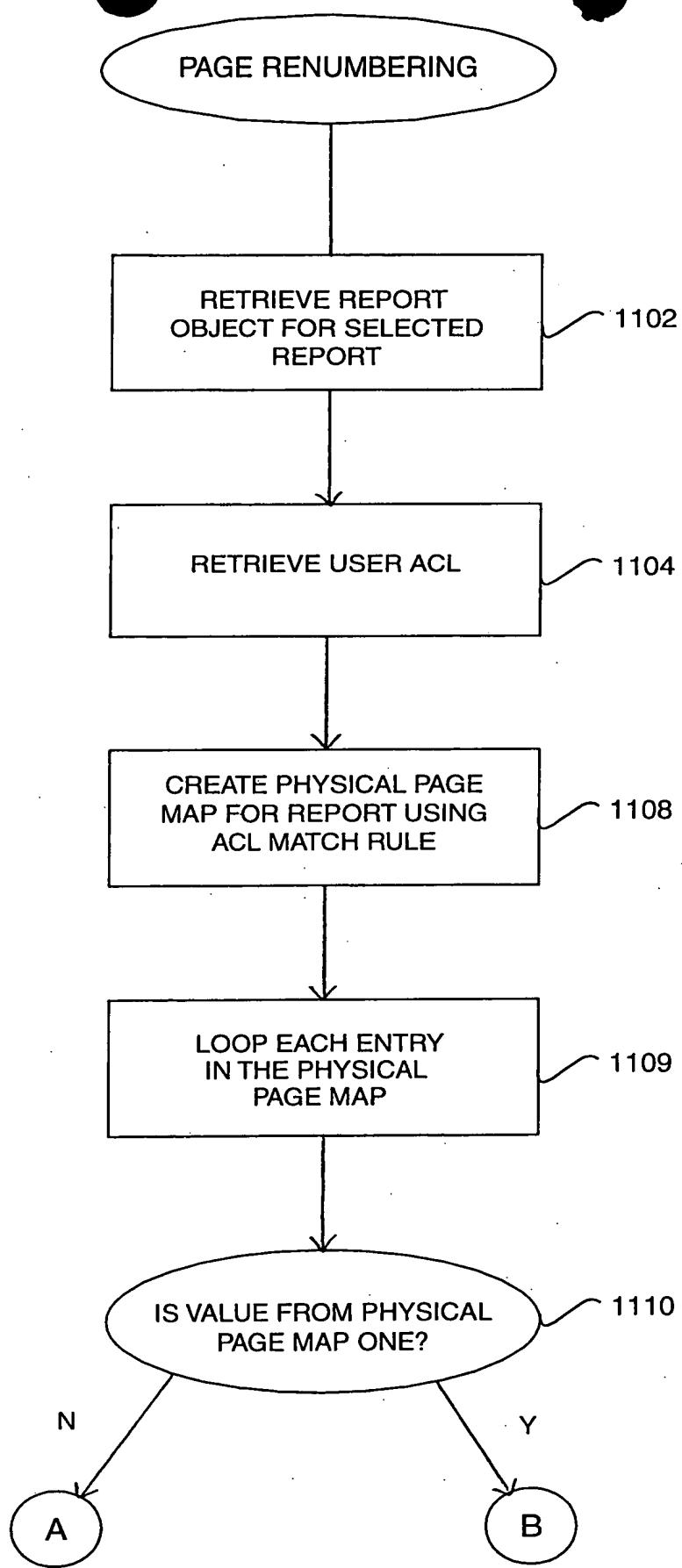
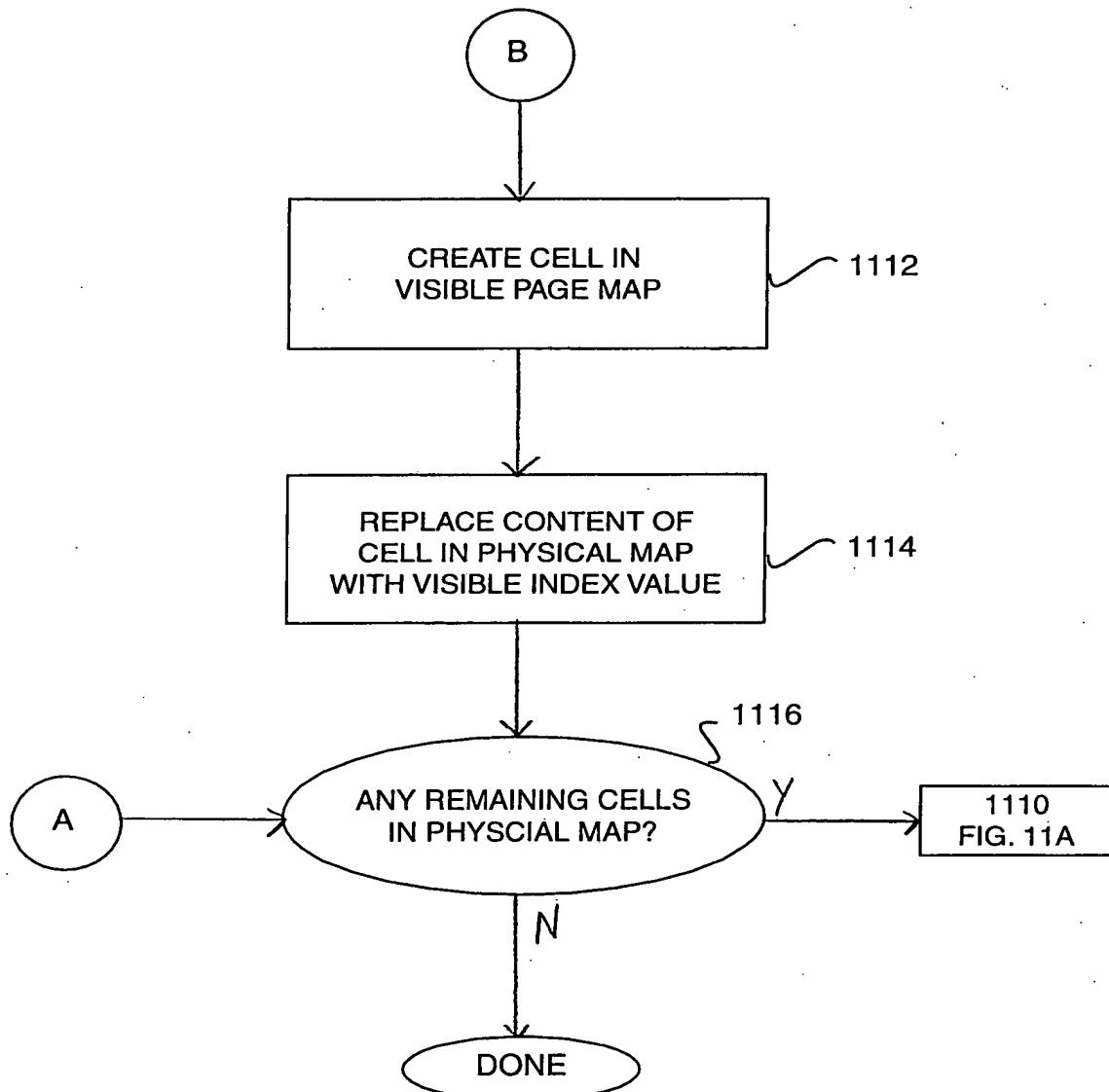


FIG. 11B



1120

Index 1124: 1 2 3 4 5 6 . .

1122  
↓  
0 0 0 1 1 1 0 0

0 0 0 1 2 3 0 0

2 2 1 1 0 0  
2 2 1 1 0 0  
2 2 1 1 0 0

Index 1128: 1 2 3 . . . 15 ( $\leq n$ )

4 5 6 . . .  $n-3 \ n-2$

1130  
↓  
1126

F T G. 11C

1202

Table of Contents

1204	<u>Region</u>	1206	<u>Sales Representative</u>	1208
1204	<u>Office</u>	1206	<u>Customer</u>	1210
1204	East	1206	1210	1212
1218	New York	1206	Page	
		5123		
		5124		
		5125		
		5126		
1220	Connecticut			
1216	Central			108

FIG. 12A

FIG. 12B

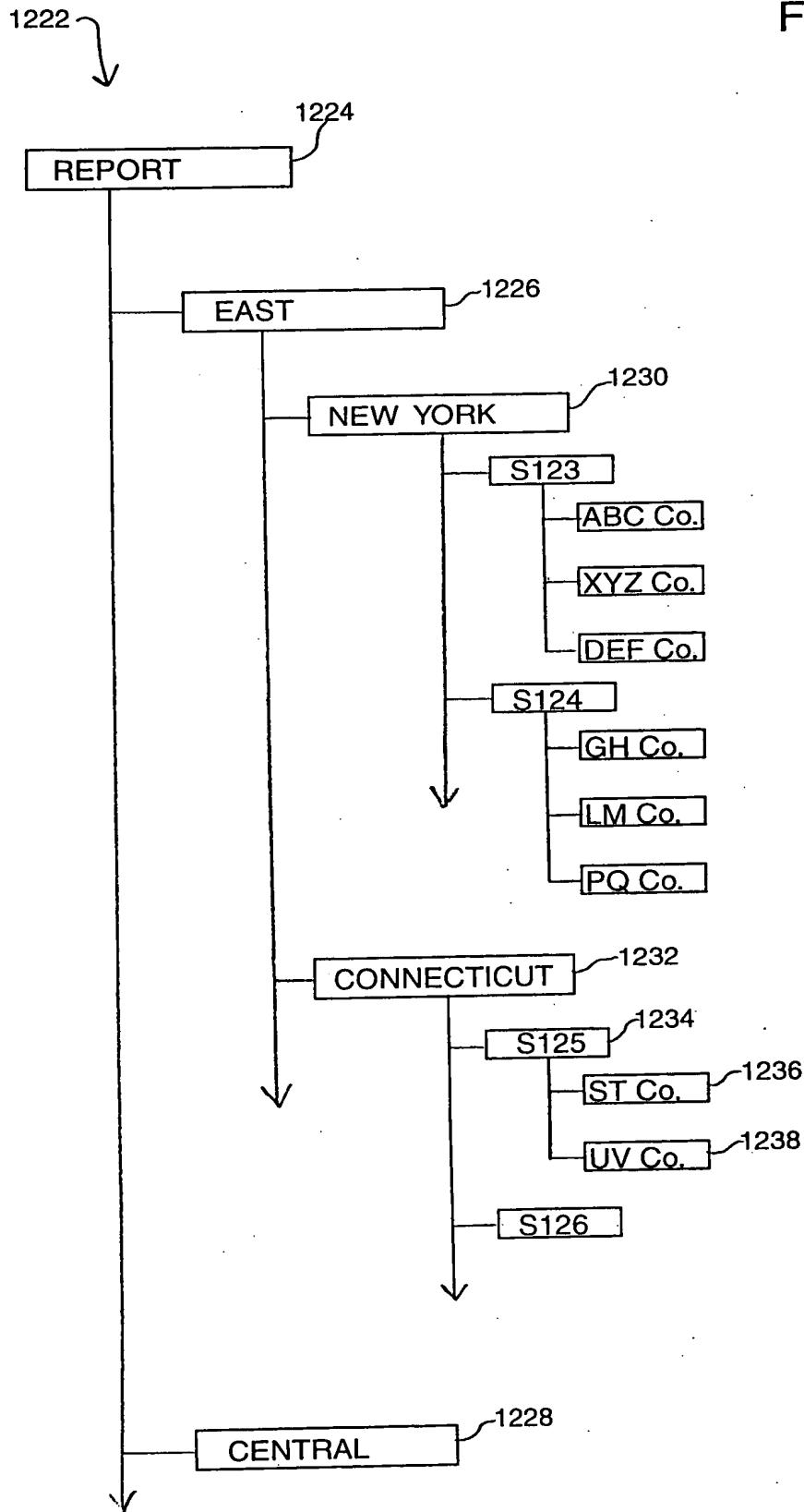
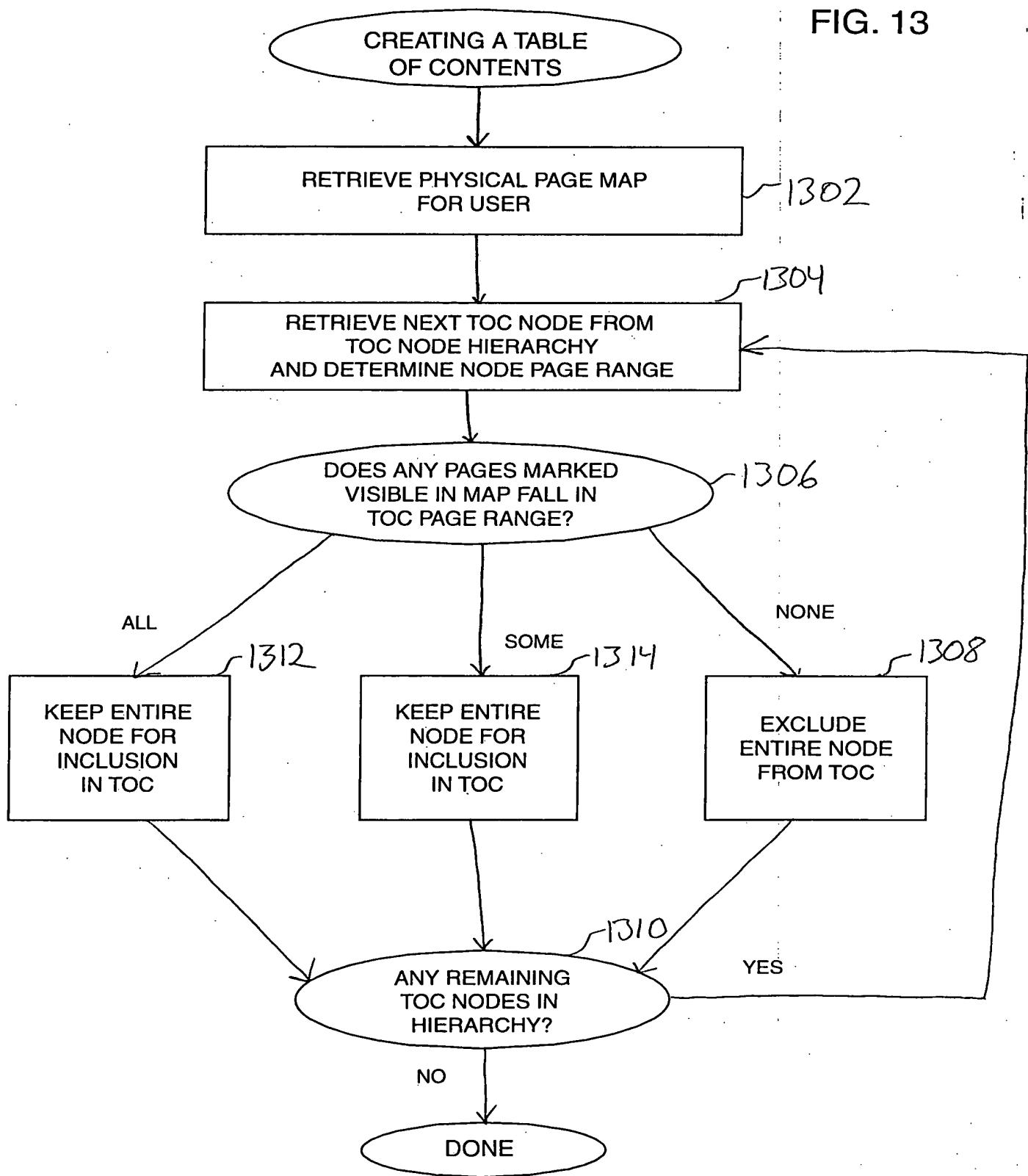
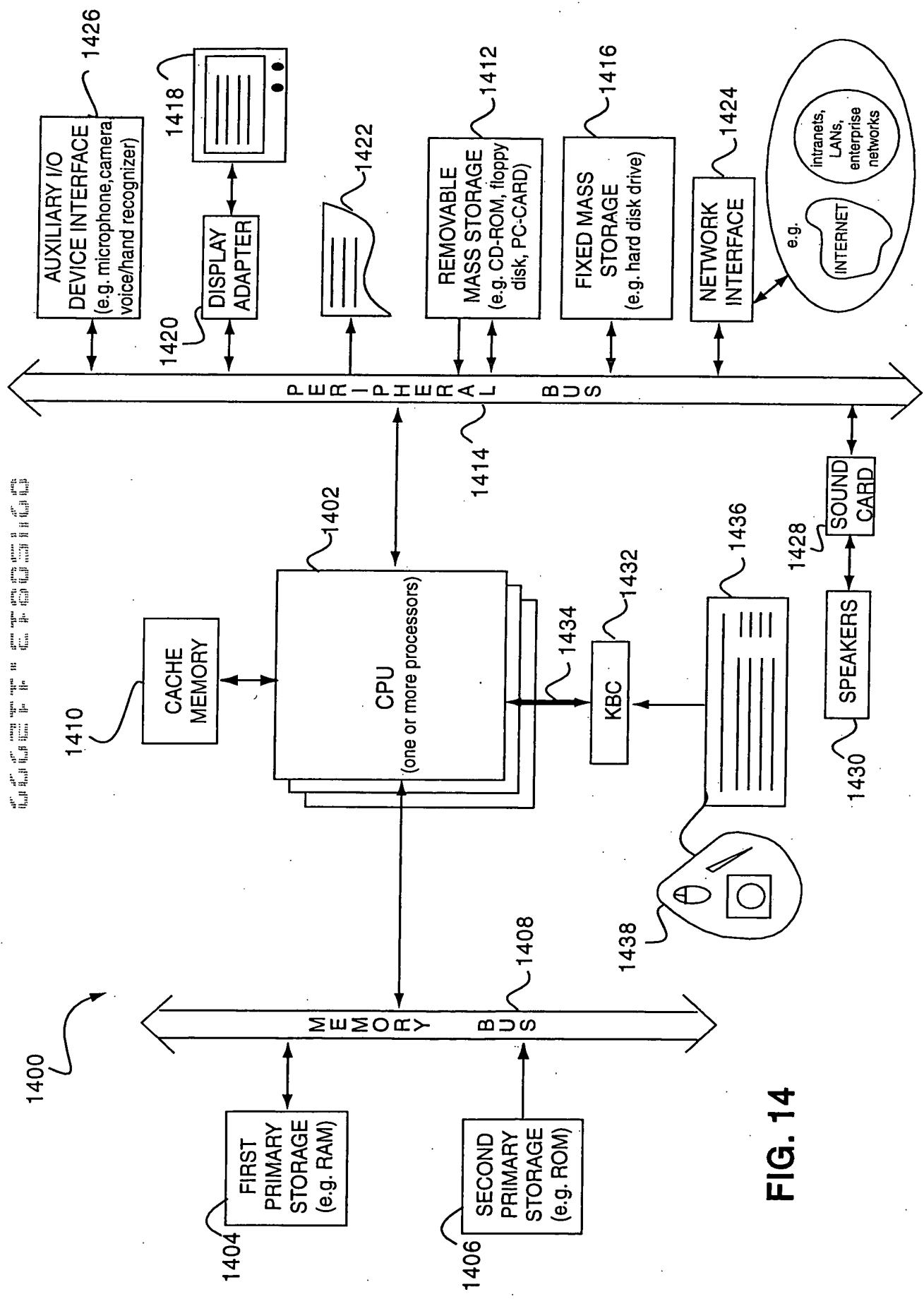


FIG. 13





**FIG. 14**